

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A cross-draft aircraft spray booth for enhanced aircraft painting and stripping comprising:
 - an end wall, the end wall having an opening, said opening adapted to allow the ingress and egress of the aircraft and comprising an aircraft-receiving area;
 - a first side wall segment, adjacent to said end wall;
 - a second side wall segment, opposing said first side wall segment;
 - a third side wall segment adjacent to said first sidewall segment, said third sidewall segment ~~[[is]]~~ being stepped inward from said first sidewall segment
 - a fourth sidewall segment adjacent to said second sidewall segment, said fourth sidewall segment being stepped inward from said second sidewall segment and opposing said third sidewall segment;
 - a first transitional sidewall segment vertically-connecting the ~~positioned between said~~ first sidewall segment to the ~~and said~~ third sidewall segment;

a second transitional sidewall segment vertically-connecting the
~~positioned between said~~ second sidewall segment to the ~~and said~~ fourth sidewall
segment;

a filtration unit opposing said end wall, said filtration unit adapted to
capture paint overspray; and

a fan unit positioned downstream from said bank of filters, said fan unit
adapted to create an airflow through said spray booth, the first and second
transitional side wall segments for taper-channeling the airflow toward an air
outlet area, the air outlet area being lesser in magnitude than the aircraft-receiving
area for accelerating the airflow and enhancing aircraft painting and stripping.

2. (original) The cross-draft spray booth of claim 1, further including:

a carbon filter bank and a fume oxidizer to remove VOC's and odors.
3. (original) The cross-draft spray booth of claim 1, further including a recirculating
air system.
4. (original) The cross-draft spray booth of claim 1, wherein heated air is provided
within said booth to cure the paint of a recently painted subject.
4. (original) The cross-draft spray booth of claim 1, wherein the first wall
segment includes lighting to illuminate the aircraft.

5. (original) The cross-draft spray booth of claim 1, wherein the second wall segment includes lighting to illuminate an aircraft.
6. (original) The cross-draft spray booth of claim 1, wherein the width between the third and fourth side walls is from about $\frac{1}{2}$ to about $\frac{2}{3}$ less than the width between the first and second side walls.
7. (original) The cross-draft spray booth of claim 1, wherein the end wall includes a plurality of doors adapted to enclose the aircraft within the spray booth.
8. (currently amended) An aircraft contamination collection booth for aircraft comprising:
 - an entryway adapted to permit the ingress and egress of aircraft, the entryway comprising an aircraft-receiving area;
 - an airflow generation unit adapted to move air through the booth;
 - an end wall, opposing the entryway, the end wall comprising an air outlet area and including a filtration system adapted to remove airborne contaminants;
 - the booth having tapered sidewalls formed to have a first section with a maximum first width defining the aircraft-receiving area and a second section with a maximum second width, the maximum second width defining an air outlet area, wherein the maximum first width [[is]] being approximately

2/3rds greater than the maximum second width, the tapered sidewalls for taper-channeling moving air toward the air outlet area for accelerating a booth-contained airflow and enhancing aircraft painting and stripping such that the airflow rate in the second width is greater than the airflow rate of the first width.

10. (original) The aircraft contamination collection booth of claim 8, wherein the entryway includes doors adapted to seal the entryway to the booth.
11. (original) The aircraft contamination collection booth of claim 9, wherein the filtration system includes a plurality of removable filtration units.
11. (original) The aircraft contamination collection booth of claim 9, wherein the sidewalls include a plurality of lights adapted to illuminate the aircraft.
12. (original) The aircraft contamination collection booth of claim 9, wherein the booth includes an air intake to permit air to enter the booth.
13. (original) The aircraft contamination collection booth of claim 9, wherein the side walls include a tapered section to transition from the first section to the second section.

14. (currently amended) An aircraft contamination collection booth for aircraft comprising:

an entryway having an opening adapted to permit the ingress and egress of the aircraft, the opening comprising an aircraft-receiving area;

an end wall opposing the entryway, the end wall comprising an air outlet area and including a filtration system;

a fan adapted to create a continuous airflow through the booth;

a first sidewall segment, positioned adjacent the entryway;

a second sidewall segment, opposing the first sidewall segment;

a first tapered wall segment connecting and taper-channeling the first sidewall segment to the air outlet area of the end wall ~~the adjacent to the first sidewall segment at a first end and adjacent to the end wall at a second end;~~
and

a second tapered wall segment connecting and taper-channeling the second sidewall segment to the air outlet area of the end wall, the air outlet area being lesser in magnitude than the aircraft-receiving area for accelerating the airflow and enhancing aircraft painting and stripping adjacent to the second sidewall segment at a first end and adjacent to the end wall at a second end.

16. (original) The aircraft contamination collection booth of claim 15, further including: a carbon filter bank and a fume oxidizer to remove VOC's and odors.

17. (original) The aircraft contamination collection booth of claim 15, further including a recirculating air system.
18. (original) The aircraft contamination collection booth of claim 15, wherein heated air is provided within said booth to cure the paint of a recently painted aircraft.
19. (original) The aircraft contamination collection booth of claim 15, wherein the first wall segment includes lighting to illuminate the aircraft.
20. (original) The aircraft contamination collection booth of claim 15, wherein the second wall segment includes lighting to illuminate an aircraft.
21. (original) The aircraft contamination collection booth of claim 15, wherein the width of the booth after the first and second tapered wall segment is reduced by about $2/3^{\text{rd}}$ s.
22. (original) The aircraft contamination collection booth of claim 15, wherein the end wall includes a door adapted to enclose the aircraft within the booth.
23. (new) An aircraft spray booth system, the aircraft spray booth system for enhanced aircraft painting and stripping, the aircraft spray booth comprising, in combination:

an aircraft, the aircraft comprising a fuselage and wings laterally-
extended from the fuselage; and

a tapered spray booth, the tapered spray booth for receiving the aircraft
and comprising a wing-receiving portion and a fuselage-receiving portion, the
wing-receiving portion comprising a first transverse booth area and the
fuselage-receiving portion comprising a second transverse booth area, the
second transverse booth area being lesser in magnitude than the first
transverse booth area for taper-channeling and accelerating a booth-directed
airflow from the wing-receiving portion to the fuselage-receiving portion,
taper-channeled and accelerated booth-directed airflow for enhancing aircraft
painting and stripping.